

WHAT IS CLAIMED IS:

1. A racket comprising:

2 a frame with an elongated handle defining a longitudinal main axis;
3 a head connected to the elongated handle;
4 said head having parallel longitudinal sides and parallel transversal sides;
5 said head having a racket face, to be spanned by strings;
6 said head having a means for securing strings to the frame;
7 a plurality of transversal strings, all being of substantially identical length, running
8 essentially parallel to each other and generally perpendicular to said longitudinal axis and
9 secured to the frame; and
10 a plurality of longitudinal strings, all being of substantially identical length, running
11 essentially parallel to each other and parallel to said longitudinal axis and secured to the
12 frame, the transversal strings and longitudinal strings together covering the entire racket
13 face.

14 2. The racket defined in claim 1 wherein said head and said racket face are rectangular
15 shaped.

16 3. The racket defined in claim 1 wherein the transversal sides of said racket face curve
17 upward with the sides remaining parallel throughout their length so that said longitudinal
18 strings continue to all be the same length.

19 4. The racket defined in claim 1 wherein the sides of said racket face curve slightly outward,
20 having such a curvature so that the string tension brings the sides back to the substantially
21 straight and parallel position.

- 1 5. The racket defined in claim 1 wherein the transversal sides of said racket face curve
2 downward and the sides remain parallel throughout their length so that said transversal
3 strings continue to all be the same length.
- 4 6. The racket defined in claim 1 wherein the distances between the intersection points of all
5 of said longitudinal strings and all of said transversal strings is equal.
- 6 7. The racket defined in claim 1 wherein the width of said racket face is 12", the length of
7 said racket face is 14.5", the length of said elongated handle is 8" and the total length of
8 the racket is 28".
- 9 8. The racket defined in claim 3 wherein the maximum curvature of the transversal sides of
10 said racket face is 1".
- 11 9. The racket defined in claim 4 wherein the maximum curvature of the sides of said racket
12 face is less than 0.5".
- 13 10. The racket defined in claim 1 wherein the space between the longitudinal strings varies
14 and the space between the transversal strings varies.
- 15 11. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal
16 strings and said transversal strings are selected so that the vibrational frequencies of the
17 strings are equal.
- 18 12. The racket defined in claim 1 wherein the tension and/or mass values of said longitudinal
19 strings and said transversal strings are selected in accordance with desired ball response
20 characteristics.
- 21 13. The racket of claim 1 wherein said racket is a tennis racket, a racquetball racket, a
22 badminton racket or a squash racket.